ThinkPad®

Product Specifications Reference
Lenovo® ThinkPad® Edge Notebooks

November 2013 - Version 446

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ThinkPad®

Lenovo® ThinkPad Twist S230u
(Tent Mode)

Lenovo® ThinkPad Twist S230u
(Tablet Mode)

Lenovo® ThinkPad Twist S230u
(Notebook Mode)

Lenovo® ThinkPad Twist S230u
(Stand Mode)

Lenovo® ThinkPad Twist S230u

Lenovo® ThinkPad Twist S230u

ThinkPad® Twist S230u (20C4) - Ultrabook

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Top color	Blue-tooth	Bat-tery cells	Preload	Ann date (mm/yy)
20C4-29U	i7-3667U	8GB	12.5" HD *Multi*	720p	128G SSD	Intel 2230[28]	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-28U	i7-3667U	8GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-27U	i7-3667U	8GB	12.5" HD *Multi*	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-26U	i7-3667U	8GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-25U	i5-3427U	4GB	12.5" HD *Multi*	720p	128G SSD	Intel 2230	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-24U	i5-3427U	4GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-23U	i5-3427U	4GB	12.5" HD *Multi*	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-22U	i5-3427U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	06/13

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology **Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable
mSATA™ SSD	*Some:* 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, **rotate and swivel hinge** *Bottom buttons:* volume up / down and Windows buttons *Side buttons:* power and auto rotation buttons
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC Adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced June 4, 2013

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ThinkPad® Twist S230u (3347) - TopSeller (Ultrabook)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Top color	Blue-tooth	Bat-tery cells	Preload	Ann date (mm/yy)
3347-2YU	i3-3217U	4GB	12.5" HD *Multi*	720p	320G 7200	TP 11a/b/g/n[28]	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2RU	i7-3517U	8GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	10/12
3347-2QU	i5-3317U	4GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	10/12
3347-2NU	i3-3217U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2HU	i5-3317U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2GU	i7-3517U	8GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***
- ***A depot repair service 1-year limited warranty***

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3317U processor (2 cores, 1.70GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology **Intel Core i7-3517U processor (2 cores, 1.90GHz, 4MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology
Memory	2GB, 4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable
mSATA™ SSD	*Some:* 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS**, rotate and swivel hinge** *Bottom buttons:* volume up / down and Windows buttons *Side buttons:* power and auto rotation buttons
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC Adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012

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ThinkPad® Twist S230u (3347) - TopSeller (Ultrabook) - II

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Top color	Blue-tooth	Bat-tery cells	Preload	Ann date (mm/yy)
3347-7EU	i5-3427U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n[28]	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-7DU	i5-3427U	4GB	12.5" HD *Multi*	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-7CU	i5-3427U	4GB	12.5" HD *Multi*	720p	128G SSD	Intel 2230	None	None	Black	BT	8	Win8 Pro64	02/13
3347-7BU	i5-3427U	4GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	02/13
3347-78U	i5-3337U	4GB	12.5" HD *Multi*	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-77U	i7-3537U	8GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	02/13
3347-76U	i5-3337U	4GB	12.5" HD *Multi*	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	02/13
3347-6WU	i3-3227U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-6VU	i5-3337U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 64	02/13
3347-6UU	i5-3337U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-6LU	i7-3537U	8GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	02/13
3347-8NU	i3-3227U	4GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 64	07/13
3347-8MU	i3-3227U	4GB	12.5" HD *Multi*	720p	320G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 64	07/13
3347-8LU	i3-3227U	4GB	12.5" HD *Multi*	720p	320G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	07/13

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**Intel® Core™ i3-3227U processor (2 cores, 1.90GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology **Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology **Intel Core i7-3537U processor (2 cores, 2.00GHz, 4MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable
mSATA™ SSD	*Some:* 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS**, rotate and swivel hinge** *Bottom buttons:* volume up / down and Windows buttons *Side buttons:* power and auto rotation buttons
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4000** in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	*Some:* 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC Adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced February 5, February 19, or July 16, 2013

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ThinkPad® Twist S230u (3347) - TopSeller

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	SIM card	Top color	Blue-tooth	Bat-tery cells	Preload	Ann date (mm/yy)
3347-2PU	i3-2365M	2GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n[28]	16GB	None	Black	BT	8	Win8 Pro64	10/12
3347-79U	i3-2375M	2GB	12.5" HD *Multi*	720p	320G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 Pro64	02/13
3347-84U	i3-2375M	2GB	12.5" HD *Multi*	720p	500G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 Pro64	05/13
3347-83U	i3-2375M	2GB	12.5" HD *Multi*	720p	320G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 64	05/13

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***
- ***A depot repair service 1-year limited warranty***

Positioning	*Convertible tablet; one spindle*
Processor	**Intel® Core™ i3-2365M processor (2 cores, 1.40GHz, 3MB Cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-2375M processor (2 cores, 1.50GHz, 3MB Cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	2GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™, removable, upgradable
mSATA™ SSD	16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, **rotate and swivel hinge** *Bottom buttons:* volume up / down and Windows buttons *Side buttons:* power and auto rotation buttons
Multi-touch	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; *Maximum external resolution:* 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm
Weight[2]	*8-cell:* from 3.50 lb (1.60kg)
Case material	*Display cover:* Magnesium + Polyphenylene sulfide (PPS); *Bottom:* Magnesium + PPS
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Extended Battery	None
Battery - life[10]	*8-cell (42.4Whr):* up to 6.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Smart Card Read	None
Ports	Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
PCIe WWAN	None
SIM card	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC Adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
GREENGUARD® certified
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012; February 19 or May 21, 2013

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ThinkPad® Twist S230u Accessories

Memory
None

Storage and removable storage

ThinkPad 16GB mSATA Solid State Cache Drive	0B47309	*ann 12/11/12*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*

ThinkPad Expansion
None

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

ThinkPad Bluetooth Laser Mouse	0A36407	*ann 06/26/12*
Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

Security

Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Power adapters

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 13.3" widescreen models:		
ThinkPad Ultraportable Case	41U5062	*ann 05/13/08*
Up to 15.6" widescreen models:		
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Lenovo Sport Backpack - Red	0A33896	*ann 02/28/12*
Lenovo Sport Slimcase - Red	0A33897	*ann 02/28/12*
Lenovo Sport Messenger - Red	0A33898	*ann 02/28/12*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D)[69]	3024HB1	*ann 09/13/11*
Lenovo LS2023 Wide 20" (VGA, DVI)	3778HB2	*ann 08/02/11*
Lenovo LS1922 Wide 18.5" (VGA)	2580AF1	*ann 08/02/11*
Lenovo LS2223 Wide 21.5" (VGA, DVI)	3783HB2	*ann 08/02/11*
Lenovo LS2323 Wide 23" (VGA, DVI)	3794HB1	*ann 08/02/11*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo Mini DisplayPort to VGA Adapter	0A36536	*ann 05/17/11*
Lenovo Mini DisplayPort to SL-DVI-D Adapter	0B47090	*ann 06/12/12*
Lenovo Mini DisplayPort to DisplayPort Cable	0B47091	*ann 07/24/12*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge E430

Lenovo ThinkPad Edge E430

Lenovo ThinkPad Edge E430

Lenovo ThinkPad Edge E430

Lenovo ThinkPad Edge E430c

Lenovo ThinkPad Edge E430

ThinkPad® Edge E430 3254 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3254-DNU	i3-2350M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12
3254-AHU	i5-2450M	4+2GB	14.0" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3254-AGU	i3-2350M	4+2GB	14.0" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	None	Matte black	Finger	6	Prem 64	04/12
3254-AFU	i3-2350M	2GBx1	14.0" HD Glos	720p	320G 5400	TP 11b/g/n	None	None	Matte black		6	Prem 64	04/12
3254-AEU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3254-ADU	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Matte black	Finger	6	Pro 64	04/12
3254-ACU	i3-2350M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black		6	Pro 64	04/12
3254-AMU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black aluminum	Finger	6	Pro 64	04/12
3254-ALU	i3-2350M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	04/12
3254-HJU	i5-2450M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black aluminum	Finger	6	Pro 64	05/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 10 or May 22, 2012

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ThinkPad® Edge E430 3254 (Intel) - TopSeller - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
3254-HKU	i7-3612QM	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black aluminum	Finger	6	62	Pro 64	05/12
3254-GLU	i5-3210M	4+2GB	14.0" HD Glos	720p	750G 5400	Intel 2230 + BT	None	Black aluminum	Finger	6	48	Pro 64	06/12
3254-GKU	i5-3210M	4+2GB	14.0" HD Glos	720p	500G 7200	Intel 2230 + BT	None	Black aluminum	Finger	6	48	Pro 64	06/12
3254-GJU	i5-3210M	4GBx1	14.0" HD Glos	720p	500G 7200	Intel 2230 + BT	None	Black aluminum	Finger	6	48	Prem 64	06/12
3254-AKU	i5-3210M	4+2GB	14.0" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	Matte black	Finger	6	48	Prem 64	06/12
3254-AJU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Pro 64	06/12
3254-ANU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black aluminum	Finger	6	48	Pro 64	06/12
3254-LWU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	Black aluminum	Finger	6	62	Pro 64	06/12
3254-HMU	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black aluminum	Finger	6	48	Pro 64	06/12
3254-HLU	i3-3110M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	Matte black	None	6	48	Pro 64	06/12
3254-TNU	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Pro 64	07/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3110M processor (dual-core, 2.40GHz, 3MB Cache)**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-3612QM processor (quad-core, 2.10GHz, 6MB Cache)**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr *6-cell (62Whr):* up to 8.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced May 22, June 5, June 26 or July 31, 2012

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ThinkPad® Edge E430 3254 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
3254-T3U	i3-3110M	4GBx1	14.0" HD Glos	720p	500G 7200	Intel 2230 + BT	None	Black alum	Finger	6	48	Win8 Pro64	10/12
3254-T2U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	10/12
3254-T1U	i3-3110M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	10/12
3254-TQU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 64	10/12
3254-TPU	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 64	10/12
3254-TMU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	Black alum	Finger	6	62	Win8 Pro64	10/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3110M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr *6-cell (62Whr):* up to 8.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012

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ThinkPad® Edge E430 6271 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6271-5JU	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 64	10/12
6271-5HU	i3-3120M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	10/12
6271-5KU	i3-3120M	4GBx1	14.0" HD Glos	720p	500G 7200	Intel 2230 + BT	None	Black alum	Finger	6	48	Win8 Pro64	10/12
6271-5GU	i5-3210M	4+2GB	14.0" HD Glos	720p	750G 5400	Intel 2230 + BT	None	Black alum	Finger	6	48	Win8 Pro64	10/12
6271-56U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	10/12
6271-55U	i3-3120M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	None	6	48	Win7 Pro64	10/12
6271-58U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	Black alum	Finger	6	62	Win7 Pro64	10/12
6271-57U	i3-3120M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Black alum	Finger	6	48	Win7 Pro64	10/12
6271-72U	i7-3612QM	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	11/12
6271-6ZU	i7-3612QM	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	11/12
6271-69U	i7-3632QM	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	62	Win7 Pro64	11/12
6271-9FU	i3-3130M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	None	6	48	Win7 Pro64	02/13
6271-9EU	i5-3230M	4+2GB	14.0" HD	720p	750G 5400	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	02/13
6271-9DU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	02/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3612QM processor (4 cores, 2.10GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr *6-cell (62Whr):* up to 8.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23 or November 6, 2012 or February 5, 2013

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ThinkPad® Edge E430 6271 (Intel) - TopSeller (Windows 8) - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6271-A6U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black alum	Finger	6	48	Win7 Pro64	03/13
6271-A5U	i3-2348M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Black alum	Finger	6	48	Win7 Pro64	03/13
6271-AEU	i3-2348M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	04/13
6271-ADU	i3-2348M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	04/13
6271-ACU	i3-2348M	4GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	04/13
6271-ABU	i3-2348M	2GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win7 Pro64	04/13
6271-AAU	i3-2348M	2GBx1	14.0" HD	720p	320G 7200	Intel 2230 + BT	None	Matte black	Finger	6	48	Win8 Pro64	04/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr *6-cell (62Whr):* up to 8.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Mobile Access
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced March 19 or April 16, 2013

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ThinkPad® Edge E430 6271 (Intel) - Optimus (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6271-59U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	16GB	Black alum	Finger	6	62	Win7 Pro64	10/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4000** in processor, and **NVIDIA GeForce® 610M**, PCI Express® x16, **1GB** memory, DirectX® 11, NVIDIA PureVideo® HD technology, External monitor support via analog VGA DB-15 connector / digital HDMI connector *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm *Black aluminum (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; 339.4 x 234mm x 27.4-32.8mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr *6-cell (62Whr):* up to 8.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	1b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

90-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012

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ThinkPad® Edge E430c 3365 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3365-49U	i3-2328M	4GBx1	14.0" HD	0.3M	320G 5400	TP 11b/g/n	None	None	Black textured	None	6	Pro 64	08/12
3365-47U	i3-2328M	2GBx1	14.0" HD	0.3M	320G 5400	TP 11b/g/n	None	None	Black textured	None	6	Pro 64	08/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2328M processor (dual-core, 2.20GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Black textured (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	Black textured (top); black bottom
Case material	*Black textured (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1
WWAN	None
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 7, 2012

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ThinkPad® Edge E430c 3365 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3365-4YU	i3-2328M	4GBx1	14.0" HD	720p	500G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	10/12
3365-4XU	i3-2328M	2GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	10/12
3365-4AU	i3-2328M	4GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win8 Pro64	10/12
3365-48U	i3-2328M	2GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win8 Pro64	10/12
3365-74U	i3-2348M	4+2GB	14.0" HD Glos	720p	750G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win8 Pro64	01/13
3365-73U	i3-2348M	4GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win8 Pro64	01/13
3365-72U	i3-2348M	4GBx1	14.0" HD	720p	500G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win8 Pro64	01/13
3365-6ZU	i3-2348M	4+2GB	14.0" HD Glos	720p	750G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	01/13
3365-6YU	i3-2348M	4GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	01/13
3365-6XU	i3-2348M	2GBx1	14.0" HD	720p	320G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	01/13
3365-6WU	i3-2348M	4GBx1	14.0" HD	720p	500G 5400	Intel 2230 + BT	None	None	Black textured	None	6	Win7 Pro64	01/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Black textured (top):* 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm
Weight[2]	*6-cell:* from 4.74 lb (2.15kg)
Case color	Black textured (top); black bottom
Case material	*Black textured (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.4 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E430 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012 or January 15, 2013

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ThinkPad® Edge E430 Accessories

Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	*ann 06/05/12*
4GB PC3-12800 DDR3 SODIMM	0A65723	*ann 06/05/12*

Storage and removable storage

ThinkPad 16GB mSATA Solid State Cache Drive	0B47309	*ann 12/11/12*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

ThinkPad Bluetooth Laser Mouse	0A36407	*ann 06/26/12*
Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 75+ (6-cell)	0A36311	*ann 04/10/12*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Lenovo Sport Backpack - Red	0A33896	*ann 02/28/12*
Lenovo Sport Slimcase - Red	0A33897	*ann 02/28/12*
Lenovo Sport Messenger - Red	0A33898	*ann 02/28/12*
Lenovo Sport Backpack - Blue	0B47298	*ann 08/28/12*
Lenovo Sport Slimcase - Blue	0B47300	*ann 08/28/12*
Lenovo Sport Messenger - Blue	0B47299	*ann 08/28/12*
Lenovo Sport Backpack - Grey	0B47301	*ann 08/28/12*
Lenovo Sport Slimcase - Grey	0B47303	*ann 08/28/12*
Lenovo Sport Messenger - Grey	0B47302	*ann 08/28/12*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	*ann 11/11/08*
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	*ann 10/20/09*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)[69]	2572MB6	*ann 09/13/11*
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)[69]	4420MB2	*ann 09/13/11*

[69] DisplayPort cable is not included.

ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	*ann 08/16/11*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Lenovo HDMI to HDMI Monitor Cable	0B47070	*ann 05/22/12*
Lenovo HDMI to VGA Monitor Cable	0B47069	*ann 06/26/12*
Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	*ann 08/14/12*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge E431

Lenovo ThinkPad Edge E431

Lenovo ThinkPad Edge E431

Lenovo ThinkPad Edge E531

Lenovo ThinkPad Edge E531

Lenovo ThinkPad Edge E531
with Numeric Keypad

ThinkPad® Edge E431 6277 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8]	rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6277-58U	i3-3120M	4GBx1	14.0" HD	720p	320G	7200	Intel 2230 + BT	None	Black	None	6	48	Win7 Pro64	04/13
6277-59U	i3-3120M	4GBx1	14.0" HD	720p	320G	7200	Intel 2230 + BT	None	Black	None	6	48	Win8 Pro64	04/13
6277-5AU	i5-3230M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	04/13
6277-5BU	i5-3230M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	04/13
6277-5CU	i7-3632QM	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	04/13
6277-5DU	i7-3632QM	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	04/13
6277-5EU	i3-3120M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	04/13
6277-5FU	i3-2348M	4GBx1	14.0" HD	720p	320G	5400	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	04/13
6277-5GU	i3-2348M	2GBx1	14.0" HD	720p	320G	7200	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	04/13
6277-5HU	i5-3230M	4GBx1	14.0" HD	720p	128G	SSD	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	04/13
6277-5JU	i5-3230M	4GBx1	14.0" HD	720p	128G	SSD	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	04/13
6277-5KU	i5-3230M	4+2GB	14.0" HD	720p	1TB	5400	Intel 2230 + BT	None	Black	Finger	6	48	Win8 64	04/13
6277-74U	i3-3120M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	04/13
6277-75U	i5-3230M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	24GB	Black	Finger	6	48	Win7 Pro64	04/13
6277-76U	i5-3230M	4GBx1	14.0" HD	720p	500G	7200	Intel 2230 + BT	24GB	Black	Finger	6	48	Win8 Pro64	04/13
6277-77U	i5-3230M	4+2GB	14.0" HD	720p	1TB	5400	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	04/13
6277-78U	i5-3230M	4+2GB	14.0" HD	720p	1TB	5400	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	04/13
6277-CBU	i3-3130M	4GBx1	14.0" HD	720p	500G	7200	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.54" x 9.41" x 1.04-1.15"; 344mm x 239mm x 26.3-29.3mm
Weight[2]	*6-cell:* from 4.70 lb (2.13kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.3 hr *6-cell (62Whr):* up to 8.2 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 30, or August 20, 2013

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ThinkPad® Edge E431 6277 (Intel) - TopSeller (Windows 8) - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6277-9QU	i7-3632QM	8GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	06/13
6277-9RU	i7-3632QM	8GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	06/13
6277-AUU	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	None	6	48	Win8 64	06/13
6277-AVU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	Finger	6	48	Win8 64	06/13
6277-AWU	i3-2348M	4GBx1	14.0" HD	720p	320G 5400	TP 11b/g/n + BT	None	Black	None	6	48	Win8 Pro64	06/13
6277-AXU	i3-2348M	2GBx1	14.0" HD	720p	320G 5400	TP 11b/g/n + BT	None	Black	None	6	48	Win8 Pro64	06/13
6277-AYU	i7-3632QM	8GBx1	14.0" HD	720p	128G SSD	Intel 2230 + BT	None	Black	Finger	6	48	Win8 Pro64	06/13
6277-AZU	i7-3632QM	8GBx1	14.0" HD	720p	128G SSD	Intel 2230 + BT	None	Black	Finger	6	48	Win7 Pro64	06/13
6277-B2U	i3-3110M	4GBx1	14.0" HD	720p	320G 5400	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	06/13
6277-B3U	i3-3110M	4GBx1	14.0" HD	720p	320G 5400	TP 11b/g/n + BT	None	Black	None	6	48	Win8 Pro64	06/13
6277-BTU	i3-3110M	2GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	07/13
6277-BUU	i3-3110M	2GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	07/13
6277-BVU	i3-3110M	4GBx1	14.0" HD	720p	500G 7200	TP 11b/g/n + BT	None	Black	None	6	48	Win7 Pro64	07/13
6277-BWU	i7-3632QM	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	None	6	48	Win7 Pro64	07/13
6277-BXU	i3-3120M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	None	6	48	Win7 Pro64	07/13
6277-BYU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	Intel 2230 + BT	None	Black	None	6	48	Win7 Pro64	07/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-3110M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.54" x 9.41" x 1.04-1.15"; 344mm x 239mm x 26.3-29.3mm
Weight[2]	*6-cell:* from 4.70 lb (2.13kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.3 hr *6-cell (62Whr):* up to 8.2 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced June 11, June 25, or July 16, 2013

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ThinkPad® Edge E431 6277 (Intel) - Optimus (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide-screen display	Discrete graphics	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6277-CCU	i5-3230M	4GBx1	14.0" HD	710M	720p	500G 7200	Intel 2230 + BT	None	Black	None	6	48	Win7 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4000** in processor, and **NVIDIA GeForce® 710M**, PCI Express® x 8, **1GB** memory, DirectX® 11.1, NVIDIA PureVideo® HD technology, External monitor support via analog VGA DB-15 connector / digital HDMI connector *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.54" x 9.41" x 1.04-1.15"; 344mm x 239mm x 26.3-29.3mm
Weight[2]	*6-cell:* from 4.70 lb (2.13kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr *6-cell (62Whr):* up to 8.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

90-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 20, 2013

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ThinkPad® Edge E431 6886 (Intel) - TopSeller (Win 8) - MultiTouch

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6886-2WU	i3-3120M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	04/13
6886-2XU	i5-3230M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	04/13
6886-2YU	i7-3632QM	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	04/13
6886-3XU	i3-3120M	4GBx1	14.0" HD Touch	720p	320G 7200	Intel 2230 + BT	None	black	None	6	48	Win8 Pro64	04/13
6886-44U	i3-2348M	4GBx1	14.0" HD Touch	720p	320G 5400	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	06/13
6886-45U	i3-2348M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	06/13
6886-46U	i5-3230M	4GBx1	14.0" HD Touch	720p	128G SSD	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	06/13
6886-47U	i7-3632QM	8GBx1	14.0" HD Touch	720p	128G SSD	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	06/13
6886-48U	i7-3632QM	8GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	06/13
6886-4HU	i3-3110M	4GBx1	14.0" HD Touch	720p	320G 5400	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	08/13
6886-4JU	i3-3110M	4GBx1	14.0" HD Touch	720p	320G 5400	Intel 2230 + BT	None	black	None	6	48	Win8 Pro64	08/13
6886-4KU	i3-3110M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 Pro64	08/13
6886-4LU	i3-3110M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	None	6	48	Win8 Pro64	08/13
6886-4MU	i3-3120M	4GBx1	14.0" HD Touch	720p	500G 7200	Intel 2230 + BT	None	black	Finger	6	48	Win8 64	10/13
6886-4NU	i5-3230M	4GBx1	14.0" HD Touch	720p	128G SSD	Intel 2230 + BT	None	black	Finger	6	48	Win8 64	10/13
6886-4PU	i7-3632QM	8GBx1	14.0" HD Touch	720p	128G SSD	Intel 2230 + BT	None	black	Finger	6	48	Win8 64	10/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-3110M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, 10-point touch screen LED backlight, 180 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.54" x 9.41" x 1.17-1.29"; 344mm x 239mm x 29.7-32.7mm
Weight[2]	*6-cell:* from 5.36 lb (2.43kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.0 hr *6-cell (62Whr):* up to 7.6 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 30, June 11, August 20, or October 15, 2013

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ThinkPad®

Lenovo® ThinkPad Edge E530

Lenovo ThinkPad Edge E530

Lenovo ThinkPad Edge E530c

Lenovo ThinkPad Edge E530 and E530c
with Numeric Keypad
(Matte black, Matte red, Matte blue or Black textured)

Lenovo ThinkPad Edge E530

Lenovo ThinkPad Edge E530
without Numeric Keypad
(Black aluminum)

ThinkPad® Edge E530 3259 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3259-BSU	i5-2450M	4GBx1	15.6" HD	720p	750G 5400	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	Pro 64	04/12
3259-BRU	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	Pro 64	04/12
3259-78U	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black		6	Pro 64	04/12
3259-79U	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	Pro 64	04/12
3259-7AU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	Pro 64	04/12
3259-7DU	i3-2350M	2GBx1	15.6" HD Glos	720p	320G 5400	TP 11b/g/n	None	Numpad	Matte black		6	Prem 64	04/12
3259-7EU	i3-2350M	4+2GB	15.6" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Prem 64	04/12
3259-7FU	i5-2450M	4+2GB	15.6" HD Glos	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Prem 64	04/12
3259-7HU	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	Pro 64	04/12
3259-7JU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black alum	Finger	6	Pro 64	04/12
3259-ELU	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	Pro 64	05/12

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 10 or May 22, 2012

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ThinkPad® Edge E530 3259 (Intel) - TopSeller - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
3259-7LU	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black alum	Finger	6	62	Pro 64	05/12
3259-7CU	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		Numpad	Matte black	Finger	6	62	Pro 64	05/12
3259-EMU	i7-3612QM	4GBx1	15.6" HD Glos	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	62	Pro 64	05/12
3259-DWU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black alum	Finger	6	62	Pro 64	06/12
3259-DVU	i5-3210M	4+2GB	15.6" HD Glos	720p	750G 5400	Intel 2230 + BT		None	Black alum	Finger	6	48	Pro 64	06/12
3259-DUU	i5-3210M	4+2GB	15.6" HD Glos	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	48	Pro 64	06/12
3259-DTU	i5-3210M	4GBx1	15.6" HD Glos	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	48	Prem 64	06/12
3259-7BU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		Numpad	Matte black	Finger	6	48	Pro 64	06/12
3259-7GU	i5-3210M	4+2GB	15.6" HD Glos	720p	500G 5400	TP 11b/g/n + BT		Numpad	Matte black	Finger	6	48	Prem 64	06/12
3259-7KU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	48	Pro 64	06/12
3259-EPU	i3-3110M	4GBx1	15.6" HD Glos	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	48	Pro 64	06/12
3259-TJU	i3-3110M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		Numpad	Matte black	Finger	6	48	Pro 64	07/12
3259-TMU	i3-3110M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT		None	Black alum	Finger	6	48	Pro 64	07/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3110M processor (dual-core, 2.40GHz, 3MB Cache)**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-3612QM processor (quad-core, 2.10GHz, 6MB Cache)**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr *6-cell (62Whr):* up to 7.5 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced May 1, May 22, June 5, June 26 or July 31, 2012

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ThinkPad® Edge E530 3259 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
3259-TEU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 64	10/12
3259-TFU	i3-3110M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 Pro64	10/12
3259-TGU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 Pro64	10/12
3259-THU	i3-3110M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	None	6	48	Win8 Pro64	10/12
3259-TKU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black alum	Finger	6	62	Win8 Pro64	10/12
3259-TLU	i3-3110M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win8 Pro64	10/12

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3110M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr *6-cell (62Whr):* up to 7.5 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card WLAN[4]	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012

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ThinkPad® Edge E530 6272 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6272-4SU	i3-3120M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	None	6	48	Win8 Pro64	10/12
6272-4RU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 Pro64	10/12
6272-4TU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win8 Pro64	10/12
6272-4GU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	10/12
6272-4FU	i3-3120M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	None	6	48	Win7 Pro64	10/12
6272-4JU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	16GB	None	Black alum	Finger	6	62	Win7 Pro64	10/12
6272-4HU	i3-3120M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win7 Pro64	10/12
6272-55U	i7-3632QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	62	Win7 Pro64	11/12
6272-53U	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 Pro64	11/12
6272-52U	i7-3612QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	11/12
6272-54U	i5-3210M	4+2GB	15.6" HD Glos	720p	750G 5400	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win8 Pro64	11/12
6272-6HU	i5-3210M	4+2GB	15.6" HD Glos	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win8 Pro64	12/12

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-3612QM processor (4 cores, 2.10GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	*Some:* 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr *6-cell (62Whr):* up to 7.5 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, November 6 or December 4, 2012

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ThinkPad® Edge E530 6272 (Intel) - TopSeller (Windows 8) - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6272-7VU	i3-3130M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	None	6	48	Win7 Pro64	02/13
6272-7UU	i5-3230M	4+2GB	15.6" HD	720p	750G 5400	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	02/13
6272-7TU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	02/13
6272-8DU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win7 Pro64	03/13
6272-8CU	i3-2348M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	None	Black alum	Finger	6	48	Win7 Pro64	03/13
6272-8MU	i3-2348M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win8 Pro64	04/13
6272-8LU	i3-2348M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	04/13
6272-8KU	i3-2348M	2GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	04/13
6272-64U	i3-2348M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Matte black	Finger	6	48	Win7 Pro64	04/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr *6-cell (62Whr):* up to 7.5 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Mobile Access
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced February 5, March 19 or April 16, 2013

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ThinkPad® Edge E530 6272 (Intel) - Optimus (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	SIM card	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6272-4PU	i5-3210M	4GBx1	15.6" HD+	720p	500G 7200	Intel 2230 + BT	None	None	Numpad	Matte black	Finger	6	62	Win7 Pro64	10/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4000** in processor, and **NVIDIA GeForce® 610M**, PCI Express® x16, **1GB** memory, DirectX® 11, NVIDIA PureVideo® HD technology, External monitor support via analog VGA DB-15 connector / digital HDMI connector *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black, Matte red or Matte blue (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black, Matte red or Matte blue (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
Weight[2]	*6-cell:* from 5.47 lb (2.48kg)
Case color	Matte black, Matte red or Matte blue (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (62Whr):* up to 7.3 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

90-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012

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ThinkPad® Edge E530c 3366 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3366-2YU	i3-2328M	4GBx1	15.6" HD	0.3M	320G 5400	TP 11b/g/n	None	Numpad	Black textured	None	6	Pro 64	08/12
3366-2WU	i3-2328M	4GBx1	15.6" HD	0.3M	500G 5400	TP 11b/g/n	None	Numpad	Black textured	None	6	Pro 64	08/12
3366-2UU	i3-2328M	2GBx1	15.6" HD	0.3M	320G 5400	TP 11b/g/n	None	Numpad	Black textured	None	6	Pro 64	08/12

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2328M processor (dual-core, 2.20GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Black textured (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Black textured (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	Black textured (top); black bottom
Case material	*Black textured (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1
WWAN	None
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 7, 2012

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ThinkPad® Edge E530c 3366 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3366-33U	i3-2328M	4GBx1	15.6" HD	720p	500G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	10/12
3366-32U	i3-2328M	2GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	10/12
3366-2ZU	i3-2328M	4GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	10/12
3366-2XU	i3-2328M	4GBx1	15.6" HD	720p	500G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	10/12
3366-2VU	i3-2328M	2GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	10/12
3366-5AU	i3-2348M	4+2GB	15.6" HD Glos	720p	750G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	01/13
3366-59U	i3-2348M	4GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	01/13
3366-58U	i3-2348M	4GBx1	15.6" HD	720p	500G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win8 Pro64	01/13
3366-57U	i3-2348M	4+2GB	15.6" HD Glos	720p	750G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	01/13
3366-56U	i3-2348M	4GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	01/13
3366-55U	i3-2348M	2GBx1	15.6" HD	720p	320G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	01/13
3366-54U	i3-2348M	4GBx1	15.6" HD	720p	500G 5400	Intel 2230 + BT	None	Numpad	Black textured	None	6	Win7 Pro64	01/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **HD (1366x768) color**, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Black textured (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Black textured (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	Black textured (top); black bottom
Case material	*Black textured (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 5.7 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012 or January 15, 2013

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ThinkPad® Edge E531 6885 (Intel) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6885-28U	i7-3632QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-2BU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-5DU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-5TU	i3-3120M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	04/13
6885-5UU	i3-3120M	4GBx1	15.6" HD	720p	320G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win8 Pro64	04/13
6885-5VU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-5WU	i7-3632QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-5ZU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-62U	i5-3230M	4GBx1	15.6" HD	720p	128G SSD	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-63U	i5-3230M	4GBx1	15.6" HD	720p	128G SSD	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-64U	i5-3230M	4+2GB	15.6" HD	720p	1TB 5400	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 64	04/13
6885-65U	i5-3230M	4+2GB	15.6" HD	720p	1TB 5400	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-66U	i5-3230M	4+2GB	15.6" HD	720p	1TB 5400	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-84U	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	24GB	Numpad	Black	Finger	6	48	Win8 Pro64	04/13
6885-88U	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	24GB	Numpad	Black	Finger	6	48	Win7 Pro64	04/13
6885-9ZU	i7-3632QM	8GBx1	15.6" FHD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	06/13
6885-A2U	i7-3632QM	8GBx1	15.6" FHD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	06/13
6885-A3U	i7-3632QM	8GBx1	15.6" FHD	720p	128G SSD	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win7 Pro64	06/13
6885-A4U	i7-3632QM	8GBx1	15.6" FHD	720p	128G SSD	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 Pro64	06/13
6885-BGU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win8 64	06/13
6885-BHU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	Finger	6	48	Win8 64	06/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **FHD (1920x1080) color**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6W" (WxDxH): 14.84" x 9.84" x 1.05-1.17"; 377 x 250mm x 26.6-29.6mm
Weight[2]	*6-cell:* from 5.4 lb (2.46kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr *6-cell (62Whr):* up to 8.1 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 30 or June 11, 2013

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ThinkPad® Edge E531 6885 (Intel) - TopSeller (Windows 8) - II

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6885-5XU	i3-2348M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	04/13
6885-5YU	i3-2348M	2GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	04/13
6885-BJU	i3-2348M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win8 Pro64	06/13
6885-BKU	i3-2348M	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win8 Pro64	06/13
6885-BMU	i3-3110M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	06/13
6885-BNU	i3-3110M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win8 Pro64	06/13
6885-CCU	i3-3110M	2GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-CDU	i3-3110M	2GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-CEU	i3-3110M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-CFU	i7-3632QM	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-CGU	i3-3120M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-CHU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	07/13
6885-D8U	i3-3110M	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n + BT	None	Numpad	Black	None	6	48	Win8 Pro64	08/13
6885-DAU	i3-3130M	4GBx1	15.6" HD	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache)**, **Intel HD Graphics 3000**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i3-3110M processor (2 cores, 2.40GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3120M processor (2 cores, 2.50GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology **Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 3000** or **Intel HD Graphics 4000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6W" (WxDxH): 14.84" x 9.84" x 1.05-1.17"; 377 x 250mm x 26.6-29.6mm
Weight[2]	*6-cell:* from 5.4 lb (2.46kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr *6-cell (62Whr):* up to 8.1 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced April 30, June 11, June 25, July 16, or August 20, 2013

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ThinkPad® Edge E531 6885 (Intel) - Optimus (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide-screen display	Discrete graphics	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
6885-D9U	i5-3230M	4GBx1	15.6" HD	710M	720p	500G 7200	Intel 2230 + BT	None	Numpad	Black	None	6	48	Win7 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i5-3230M processor (2 cores, 2.60GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, tray-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
M.2 SSD	None
Widescreen display	*Some:* **15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (396mm) **FHD (1920x1080) color**, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4000** in processor, and **NVIDIA GeForce® 710M**, PCI Express® x 8, **1GB** memory, DirectX® 11.1, or **NVIDIA GeForce® GT740M**, PCI Express® x 8, **2GB** memory, DirectX® 11.1, NVIDIA PureVideo® HD technology, External monitor support via analog VGA DB-15 connector / digital HDMI connector *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	15.6W" (WxDxH): 14.84" x 9.84" x 1.05-1.17"; 377 x 250mm x 26.6-29.6mm
Weight[2]	*6-cell:* from 5.5 lb (2.49kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr *6-cell (62Whr):* up to 8.0 hr
Chipset	**Mobile Intel HM77 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 3.0, one USB 2.0 (powered), OneLink Docking port external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 / Dolby Advanced Audio v2 certified / Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

90-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.2-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 20, 2013

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ThinkPad® Edge E535 3260 (AMD) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3260-5UU	A6-4400M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	Finger	6	Pro 64	06/12
3260-5VU	A6-4400M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Pro 64	06/12
3260-5SU	A4-4300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	None	6	Pro 64	07/12
3260-5TU	A4-4300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	None	6	Prem 64	07/12
3260-DRU	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Pro 64	07/12
3260-DQU	A10-4600M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Pro 64	07/12
3260-EAU	A6-4400M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Prem 64	08/12
3260-E9U	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Prem 64	08/12
3260-E8U	A10-4600M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Prem 64	08/12

• ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD Accelerated Processor A4-4300M** (dual-core, 2.50GHz, 1MB L2 cache), integrated AMD Radeon™ HD 7420G Graphics, AMD Turbo Core technology (up to 3.00GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A6-4400M** (dual-core, 2.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7520G Graphics, AMD Turbo Core technology (up to 3.20GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A8-4500M** (quad-core, 1.90GHz, 4MB L2 cache), integrated AMD Radeon HD 7640G Graphics, AMD Turbo Core technology (up to 2.80GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A10-4600M** (quad-core, 2.30GHz, 4MB L2 cache), integrated AMD Radeon HD 7660G Graphics, AMD Turbo Core technology (up to 3.20GHz), integrated DDR3 memory controller (up to 1600MHz)
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**AMD Radeon HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 1920x1600 (VGA)@60Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad *Black aluminum (top):* 6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm *Black aluminum (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	*Some:* Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom *Some:* Black aluminum (top); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic *Black aluminum (top):* Aluminum
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.0 hr
Chipset	**AMD A70M FCH**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card WLAN[4]	One PCI Express Mini Card slot *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* AuthenTec fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (only some listed)
- One Key Recovery Pro

Preloaded applications[14] (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced June 19, July 24, July 31 or August 28, 2012

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ThinkPad® Edge E535 3260 (AMD) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
3260-EFU	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win7 Pro64	10/12
3260-EDU	A4-4300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	None	6	Win7 Pro64	10/12
3260-ECU	A6-4400M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win7 Pro64	10/12
3260-E7U	A4-4300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	Finger	6	Win8 64	10/12
3260-E6U	A6-4400M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 64	10/12
3260-E5U	A6-4400M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	Finger	6	Win8 64	10/12
3260-E4U	A6-4400M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	Finger	6	Win8 Pro64	10/12
3260-E3U	A4-4300M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	Numpad	Matte black	Finger	6	Win8 Pro64	10/12
3260-E2U	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 64	10/12
3260-DZU	A10-4600M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 64	10/12
3260-DYU	A10-4600M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 Pro64	10/12
3260-DXU	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 Pro64	10/12
3260-DVU	A6-4400M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	Finger	6	Win8 Pro64	10/12
3260-FMU	A8-4500M	4+2GB	15.6" HD	720p	750G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	None	6	Win7 Pro64	05/13
3260-FLU	A8-4500M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	None	6	Win7 Pro64	05/13
3260-FKU	A10-4600M	4+2GB	15.6" HD	720p	750G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	None	6	Win7 Pro64	05/13
3260-FJU	A10-4600M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n + BT	None	Numpad	Matte black	None	6	Win7 Pro64	05/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD Accelerated Processor A4-4300M** (dual-core, 2.50GHz, 1MB L2 cache), integrated AMD Radeon™ HD 7420G Graphics, AMD Turbo Core technology (up to 3.00GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A6-4400M** (dual-core, 2.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7520G Graphics, AMD Turbo Core technology (up to 3.20GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A8-4500M** (quad-core, 1.90GHz, 4MB L2 cache), integrated AMD Radeon HD 7640G Graphics, AMD Turbo Core technology (up to 2.80GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A10-4600M** (quad-core, 2.30GHz, 4MB L2 cache), integrated AMD Radeon HD 7660G Graphics, AMD Turbo Core technology (up to 3.20GHz), integrated DDR3 memory controller (up to 1600MHz)
Memory	16GB max[7] / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, face track, low light sensitive, fixed focus, LED indicator
Graphics	**AMD Radeon HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 1920x1600 (VGA)@60Hz; 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black or Matte red (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
Weight[2]	*6-cell:* from 5.4 lb (2.45kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	*Matte black or Matte red (top):* Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.0 hr
Chipset	**AMD A70M FCH**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* AuthenTec fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E530 sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced October 23, 2012 or May 21, 2013

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ThinkPad® Edge E530, E535 Accessories

Memory

2GB PC3-12800 DDR3 SODIMM	0A65722	*ann 06/05/12*
4GB PC3-12800 DDR3 SODIMM	0A65723	*ann 06/05/12*

Storage and removable storage

USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 3.0 Secure 500GB Hard Drive	0A65619	*ann 11/29/11*
USB 3.0 Secure 750GB Hard Drive	0A65616	*ann 11/29/11*
USB 3.0 Secure 1TB Hard Drive	0A65621	*ann 08/28/12*
E530 Only:		
ThinkPad 16GB mSATA Solid State Cache Drive	0B47309	*ann 12/11/12*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
Ultraslim Plus Wireless Keyboard and Mouse[52]	0A34032	*ann 04/05/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

ThinkPad Bluetooth Laser Mouse	0A36407	*ann 06/26/12*
Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
Lenovo Wireless Laser Mouse[52]	0A36188	*ann 12/20/11*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

Security

3M 15.6W Privacy Filter from Lenovo	0A61771	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 75+ (6-cell)	0A36311	*ann 04/10/12*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Lenovo Sport Backpack - Red	0A33896	*ann 02/28/12*
Lenovo Sport Slimcase - Red	0A33897	*ann 02/28/12*
Lenovo Sport Messenger - Red	0A33898	*ann 02/28/12*
Lenovo Sport Backpack - Blue	0B47298	*ann 08/28/12*
Lenovo Sport Slimcase - Blue	0B47300	*ann 08/28/12*
Lenovo Sport Messenger - Blue	0B47299	*ann 08/28/12*
Lenovo Sport Backpack - Grey	0B47301	*ann 08/28/12*
Lenovo Sport Slimcase - Grey	0B47303	*ann 08/28/12*
Lenovo Sport Messenger - Grey	0B47302	*ann 08/28/12*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1	*ann 11/11/08*
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69]	2448MB6	*ann 09/13/11*
ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6	*ann 10/20/09*
ThinkVision L2251x Wide 22" (VGA, DP)	2578HB6	*ann 10/20/09*
ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)[69]	2572MB6	*ann 09/13/11*
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)[69]	4420MB2	*ann 09/13/11*

[69] DisplayPort cable is not included.

ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0)	1452DS6	*ann 08/16/11*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB Soundbar	0A36190	*ann 05/01/12*
Lenovo HDMI to HDMI Monitor Cable	0B47070	*ann 05/22/12*
Lenovo HDMI to VGA Monitor Cable	0B47069	*ann 06/26/12*
Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47072	*ann 08/14/12*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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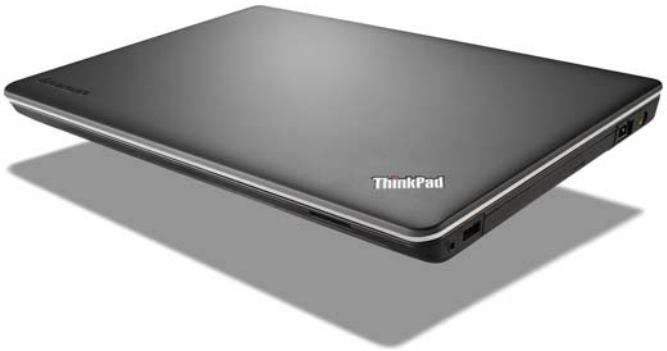
ThinkPad®

Lenovo® ThinkPad Edge E545



Lenovo ThinkPad Edge E545

Lenovo ThinkPad Edge E545

Lenovo ThinkPad Edge E545

Lenovo ThinkPad Edge E545

Lenovo ThinkPad Edge E545

ThinkPad® Edge E545 20B2 (AMD) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	PCIe Mini Card WWAN /mSATA	Numeric Keypad	Top color	Micro-phone	Finger print reader	Bat-tery cells	Preload	Ann date (mm/yy)
20B2000SUS	A10-5750M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win8 64	08/13
20B20010US	A8-4500M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B2000VUS	A6-5350M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win8 64	08/13
20B20011US	A6-5350M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B2000KUS	A8-5550M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B2000XUS	A10-5750M	8GBx1	15.6" HD	720p	1TB 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B20012US	A6-5350M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win8 64	08/13
20B2000WUS	A8-5550M	8GBx1	15.6" HD	720p	1TB 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B2000YUS	A10-5750M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	08/13
20B2000RUS	A10-5750M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win8 Pro64	08/13
20B2000UUS	A6-5350M	4GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win8 64	08/13
20B2000TUS	A8-4500M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win8 64	08/13
20B2000QUS	A8-5550M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n + BT	None	Numpad	Matte black	Stereo	None	6	Win8 Pro64	08/13
20B2001BUS	A6-5350M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win8 64	10/13
20B2001AUS	A6-5350M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win8 Pro64	10/13
20B20019US	A6-5350M	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	Numpad	Matte black	Stereo	None	6	Win7 Pro64	10/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD Accelerated Processor A6-5350M** (dual-core, 2.90GHz, 1MB L2 cache), integrated AMD Radeon HD 8450G Graphics, AMD Turbo Core technology (up to 3.50GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A8-4500M** (quad-core, 1.90GHz, 4MB L2 cache), integrated AMD Radeon HD 7640G Graphics, AMD Turbo Core technology (up to 2.80GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A8-5550M** (quad-core, 2.10GHz, 4MB L2 cache), integrated AMD Radeon HD 8550G Graphics, AMD Turbo Core technology (up to 3.10GHz), integrated DDR3 memory controller (up to 1600MHz) **AMD Accelerated Processor A10-5750M** (quad-core, 2.50GHz, 4MB L2 cache), integrated AMD Radeon HD 8650G Graphics, AMD Turbo Core technology (up to 3.50GHz), integrated DDR3 memory controller (up to 1600MHz)
Memory	16GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (396mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**AMD Radeon HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	*Matte black (top):* 6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*Matte black or Matte red (top):* 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm
Weight[2]	*6-cell:* from 5.2 lb (2.37kg)
Case color	Matte black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 6-cell
Battery - life[10]	*6-cell (48Whr):* up to 6.2 hr
Chipset	**AMD A76M FCH**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1
WWAN	None
Modem	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone or Mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- **Windows 7 models**
  - Adobe® Reader®

- **Windows 8 models**
  - Lenovo Support
  - Lenovo Companion
  - Lenovo Cloud Storage

- **All models** (exclude DOS and No OS models)
  - ThinkVantage System Update
  - Norton™ Internet Security (30 days of virus definitions)
  - Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

See footnotes for more detailed information
US model(s) announced August 20, or October 15, 2013

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ThinkPad®

Lenovo® ThinkPad S1 Yoga

Lenovo ThinkPad S1 Yoga

Lenovo ThinkPad S1 Yoga

Lenovo ThinkPad S1 Yoga

Lenovo ThinkPad S1 Yoga

Lenovo ThinkPad S1 Yoga

ThinkPad® S1 Yoga (20CD) - TopSeller

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Screen type	Pen	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	M.2 Card WWAN /SSD	SIM card	Top color	Bat-tery cells	Preload	Ann date (mm/yy)
20CD0002US	i7-4500U	8GB	12.5" HD	anti-smudge	None	720p	256G SSD	Intel 7260 + BT	None	None	Black	8	Win8.1 64	11/13
20CD000GUS	i3-4010U	4GB	12.5" HD	anti-smudge	None	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000HUS	i5-4200U	4GB	12.5" HD	anti-smudge	None	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000JUS	i5-4200U	4GB	12.5" FHD	anti-smudge	None	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000KUS	i7-4500U	8GB	12.5" HD	anti-smudge	None	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000LUS	i7-4500U	8GB	12.5" FHD	anti-smudge	None	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000MUS	i5-4200U	8GB	12.5" FHD	anti-glare	Pen	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000NUS	i5-4200U	4GB	12.5" FHD	anti-glare	Pen	720p	256G SSD	Intel 7260 ac + BT	None	None	Black	8	Win8.1 Pro64	11/13
20CD000PUS	i5-4300U	4GB	12.5" FHD	anti-glare	Pen	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000QUS	i5-4300U	4GB	12.5" FHD	anti-glare	Pen	720p	256G SSD	Intel 7260 ac + BT	None	None	Black	8	Win8.1 Pro64	11/13
20CD000RUS	i7-4600U	8GB	12.5" FHD	anti-glare	Pen	720p	500G 5400	Intel 7260 ac + BT	16GB	None	Black	8	Win8.1 Pro64	11/13
20CD000SUS	i7-4600U	8GB	12.5" FHD	anti-glare	Pen	720p	256G SSD	Intel 7260 ac + BT	None	None	Black	8	Win8.1 Pro64	11/13
20CD002FUS	i5-4200U	4GB	12.5" HD	anti-smudge	None	720p	256G SSD	Intel 7260 ac + BT	None	None	Black	8	Win8.1 Pro64	11/13
20CD002GUS	i5-4200U	4GB	12.5" FHD	anti-smudge	None	720p	256G SSD	Intel 7260 ac + BT	None	None	Black	8	Win8.1 Pro64	11/13

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**Intel® Core™ i3-4010U processor (2 cores, 1.70GHz, 3MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-4200U processor (2 cores, 1.60GHz, 3MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology **Intel Core i5-4300U processor (2 cores, 1.90GHz, 3MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i7-4500U processor (2 cores, 1.80GHz, 4MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology **Intel Core i7-4600U processor (2 cores, 2.10GHz, 4MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless, 10-point touch screen LED backlight, 300 nits, 16:9 aspect ratio, IPS**;** *Some:* **12.5"** (317.5mm) **FHD (1920x1080) TFT color**, smudgeless, 10-point touch screen LED backlight, 400 nits, 16:9 aspect ratio, IPS**;** *Some:* **12.5"** (317.5mm) **FHD (1920x1080) TFT color**, anti-glare, 10-point touch screen with Pen, LED backlight, 400 nits, 16:9 aspect ratio, IPS
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4400** in processor, supports external digital monitor via Mini HDMI; supports dual independent display; *Maximum external resolution:* 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.44" x 8.70" x 0.74"; 316mm x 221mm x 18.8mm *8-cell with Pen:* 12.44" x 8.70" x 0.76"; 316mm x 221mm x 19.4mm
Weight[2]	*8-cell:* from 3.46 lb (1.57kg) *8-cell with Pen:* from 3.59 lb (1.63kg)
Case material	*Display cover:* Magnesium and Aluminum + Polyphenylene sulfide (PPS); *Bottom:* Magnesium and Aluminum + Polyphenylene sulfide (PPS);
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Battery - life[10]	*8-cell (47Whr):* up to 7.0 hr
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Ports	Two USB 3.0(one powered), external monitor (mini-HDMI)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	None
Intel AMT	None
Audio support	High Definition (HD) Audio, Conexant CX20751 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows 8.1 64-bit
- *Some:* Windows 8.1 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

45-watt AC Adapter
ENERGY STAR® compliant
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced November 5, 2013

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ThinkPad® S1 Yoga (20CD) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Widescreen display	Screen type	Pen	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	M.2 Card WWAN /SSD	Top color	Bat-tery cells	Preload	Ann date (mm/yy)
20CD002HUS	i7-4500U	8GB	12.5" HD	anti-smudge	None	720p	256G SSD	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002JUS	i7-4500U	8GB	12.5" FHD	anti-smudge	None	720p	256G SSD	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002PUS	i5-4200U	4GB	12.5" HD	anti-smudge	None	720p	128G SSD	Intel 7260 + BT	None	Black	8	Win8.1 64	11/13
20CD002QUS	i5-4200U	4GB	12.5" FHD	anti-glare	Pen	720p	128G SSD	Intel 7260 + BT	None	Black	8	Win8.1 64	11/13
20CD002RUS	i7-4500U	8GB	12.5" FHD	anti-glare	Pen	720p	256G SSD	Intel 7260 + BT	None	Black	8	Win8.1 64	11/13
20CD002SUS	i5-4200U	4GB	12.5" HD	anti-smudge	None	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002TUS	i5-4200U	4GB	12.5" FHD	anti-glare	Pen	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002UUS	i7-4500U	8GB	12.5" HD	anti-smudge	None	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002VUS	i7-4500U	8GB	12.5" FHD	anti-glare	Pen	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002WUS	i7-4500U	8GB	12.5" FHD	anti-smudge	None	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002XUS	i5-4200U	4GB	12.5" FHD	anti-smudge	None	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD002YUS	i5-4300U	4GB	12.5" FHD	anti-glare	Pen	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13
20CD0030US	i7-4600U	8GB	12.5" FHD	anti-glare	Pen	720p	180G SSD OPAL	Intel 7260 ac + BT	None	Black	8	Win8.1 Pro64	11/13

Positioning	*Convertible tablet ultrabook™; one spindle*
Processor	**Intel® Core™ i5-4200U processor (2 cores, 1.60GHz, 3MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology **Intel Core i5-4300U processor (2 cores, 1.90GHz, 3MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i7-4500U processor (2 cores, 1.80GHz, 4MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology **Intel Core i7-4600U processor (2 cores, 2.10GHz, 4MB Cache)**, **Intel HD Graphics 4400**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **12.5"** (317.5mm) **HD (1366x768) TFT color**, smudgeless, 10-point touch screen LED backlight, 300 nits, 16:9 aspect ratio, IPS; *Some:* **12.5"** (317.5mm) **FHD (1920x1080) TFT color**, smudgeless, 10-point touch screen LED backlight, 400 nits, 16:9 aspect ratio, IPS; *Some:* **12.5"** (317.5mm) **FHD (1920x1080) TFT color**, anti-glare, 10-point touch screen with Pen, LED backlight, 400 nits, 16:9 aspect ratio, IPS
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus
Graphics	**Intel HD Graphics 4400** in processor, supports external digital monitor via Mini HDMI; supports dual independent display; *Maximum external resolution:* 1920x1200 (Mini HDMI)@60Hz
Keyboard	6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
Light sensor	Ambient light sensor
ThinkLight™	None
Dimensions[3]	*8-cell:* 12.44" x 8.70" x 0.74"; 316mm x 221mm x 18.8mm *8-cell with Pen:* 12.44" x 8.70" x 0.76"; 316mm x 221mm x 19.4mm
Weight[2]	*8-cell:* from 3.46 lb (1.57kg) *8-cell with Pen:* from 3.59 lb (1.63kg)
Case material	*Display cover:* Magnesium and Aluminum + Polyphenylene sulfide (PPS); *Bottom:* Magnesium and Aluminum + Polyphenylene sulfide (PPS);
Battery - type	Integrated Li-Polymer 8-cell, HW Authentication
Battery - life[10]	*8-cell (47Whr):* up to 7.0 hr
Multicard Reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	None
Ports	Two USB 3.0(one powered), external monitor (mini-HDMI)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	*Some:* 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 *Some:* 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
Ethernet	None
Intel AMT	None
Audio support	High Definition (HD) Audio, Conexant CX20751 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows 8.1 64-bit
- *Some:* Windows 8.1 Pro 64-bit

Preloaded applications[14] (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate
- Skype™

Supports ThinkVantage® technologies

45-watt AC Adapter
ENERGY STAR® compliant
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced November 5, 2013

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ThinkPad®

Lenovo® ThinkPad S3-S431

Lenovo® ThinkPad S3-S431

Lenovo® ThinkPad S3-S431

Lenovo® ThinkPad S3-S431

Lenovo® ThinkPad S3-S431

Lenovo® ThinkPad S3-S431

ThinkPad® S3-S431 20AX (TopSeller)

Product Specifications Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20AX0000US	i3-3227U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win7 Pro64	06/13
20AX0001US	i5-3337U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win7 Pro64	06/13
20AX000MUS	i7-3687U	8GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win7 Pro64	06/13
20AX000NUS	i3-3227U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	06/13
20AX000PUS	i5-3337U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	06/13
20AX000QUS	i7-3687U	8GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	06/13
20AX000RUS	i3-3227U	4GBx1	14.0" HD	720p	320G 7200	TP 11a/b/g/n + BT	None	Black	Finger	4	46	Win7 Pro64	06/13
20AX000SUS	i3-3227U	4GBx1	14.0" HD	720p	320G 7200	TP 11a/b/g/n + BT	None	Black	Finger	4	46	Win8 Pro64	06/13
20AX004KUS	i5-3437U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win7 Pro64	11/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i3-3227U processor (2 cores, 1.90GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology **Intel Core i5-3437U processor (2 cores, 1.90GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System™
M.2 SSD	*Some:* M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external digital monitor support via HDMI™ (supporting HDCP to output protected content); *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.11" x 8.86" x 0.81"; 332.8mm x 224.8mm x 20.3mm
Weight[2]	*4-cell:* from 3.92 lb (1.78kg)
Case color	Black or silver (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (46Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 9.1 hr *MobileMark 2012:* *Windows 8:* up to 5.9 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced June 4, or November 19, 2013

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ThinkPad® S3-S431 20AX (AMD HD) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20AX003WUS	i3-3217U	4GBx1	14.0" HD+	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win7 Pro64	07/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System™
M.2 SSD	M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**AMD Radeon™ HD 8670M Graphics**, **1GB** memory external digital monitor support via HDMI™; *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.11" x 8.86" x 0.81"; 332.8mm x 224.8mm x 20.3mm
Weight[2]	*4-cell:* from 3.92 lb (1.78kg)
Case color	Black or silver (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (46Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 7.2 hr *MobileMark 2012:* *Windows 8:* up to 5.2 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- *Some:* Windows 8 Pro 64-bit

Preloaded applications (only some listed)

- Windows 7 models
- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Adobe® Reader®

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

- All models
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office 2013 preloaded; purchase product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced July 2, 2013

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ThinkPad® S3-S431 20BA

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20BA0000US	i5-3437U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	06/13
20BA0001US	i7-3687U	8GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	06/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i5-3437U processor (2 cores, 1.90GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System™
M.2 SSD	M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external digital monitor support via HDMI™ (supporting HDCP to output protected content); *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.11" x 8.86" x 0.81"; 332.8mm x 224.8mm x 20.3mm
Weight[2]	*4-cell:* from 3.92 lb (1.78kg)
Case color	Black or silver (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (46Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 9.1 hr *MobileMark 2012:* *Windows 8:* up to 5.9 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows 8 Pro 64-bit

Preloaded applications (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office 2013 preloaded; purchase product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced June 4, 2013

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ThinkPad® S3-S431 20AX (TopSeller) - MultiTouch

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20AX000VUS	i7-3687U	8GBx1	14.0" HD+ Touch	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	08/13
20AX000TUS	i3-3227U	4GBx1	14.0" HD+ Touch	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	08/13
20AX000UUS	i5-3337U	4GBx1	14.0" HD+ Touch	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i3-3227U processor (2 cores, 1.90GHz, 3MB Cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), HT technology **Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology **Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System™
M.2 SSD	M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, 10-point touch screen LED backlight, 220 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external digital monitor support via HDMI™ (supporting HDCP to output protected content); *Max external resolution:* 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.10" x 8.85" x 0.87"; 332.8mm x 224.8mm x 22.1mm
Weight[2]	*4-cell:* from 4.10 lb (1.86kg)
Case color	Black or silver (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (46Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 6.7 hr *MobileMark 2012:* *Windows 8:* up to 4.9 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows 8 Pro 64-bit

Preloaded applications (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Supports ThinkVantage® technologies

65-watt AC adapter
ENERGY STAR® compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 13, 2013

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ThinkPad® S3-S431 20BA (MultiTouch)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN / BT	M.2 Card WWAN /SSD	Top color	Finger print reader	Bat-tery cells	Bat-tery /Wh	Preload	Ann date (mm/yy)
20BA0002US	i5-3437U	4GBx1	14.0" HD+ Touch	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	08/13
20BA0003US	i7-3687U	8GBx1	14.0" HD+ Touch	720p	500G 7200	TP 11a/b/g/n + BT	24G	Black	Finger	4	46	Win8 Pro64	08/13

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; one spindles*
Processor	**Intel® Core™ i5-3437U processor (2 cores, 1.90GHz, 3MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache)**, **Intel HD Graphics 4000**, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
Memory	8GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System™
M.2 SSD	M.2 Solid State Drive (SSD), via M.2 Card slot
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio *Some:* **14.0"** (355mm) **HD+ (1600x900) color**, anti-glare, 10-point touch screen LED backlight, 220 nits, 16:9 aspect ratio
Camera	HD720p resolution, low light sensitive, fixed focus, LED indicator
Graphics	**Intel HD Graphics 4000** in processor, external digital monitor support via HDMI™ (supporting HDCP to output protected content); *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch
ThinkLight™	None
Dimensions[3]	14.0W" (WxDxH): 13.10" x 8.85" x 0.87"; 332.8mm x 224.8mm x 22.1mm
Weight[2]	*4-cell:* from 4.10 lb (1.86kg)
Case color	Black or silver (top); black bottom
Case material	Sand Blast Aluminum
Battery - type[37]	Li-Polymer 4-cell (46Whr)
Battery - life[10]	*MobileMark 2007:* *Windows 7:* up to 6.7 hr *MobileMark 2012:* *Windows 8:* up to 4.9 hr
Chipset	**Mobile Intel HM76 Express Chipset**
ExpressCard	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	One USB 3.0, one USB 3.0 (powered), OneLink Docking port (supports optional 4X10A06077) external monitor (HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Mini Card slot
PCIe WLAN[4]	11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
M.2 Card	One M.2 Card slot for support of WWAN card or SSD
M.2 WWAN	None
Bluetooth™	Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card
Ethernet	Realtek® RTL8111F Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1.5 watt x 2 / Dolby® Home Theater® v4 / dual array microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Windows 8 Pro 64-bit

Preloaded applications (only some listed)
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65-watt AC adapter
ENERGY STAR® compliant
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International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced August 13, 2013

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ThinkPad® Edge/Twist/S3 - TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkPad Edge/Twist/S3 Series

ThinkPad Edge E430/E430c/E530/E530c notebooks with 1-year Depot warranty

3 YEAR Depot Warranty	04W8706
3 YEAR Depot Warranty & Accidental Damage Protection	04W8708
3 YEAR Onsite Warranty	04W8707
3 YEAR Onsite Warranty & Accidental Damage Protection	04W8709

ThinkPad Twist S230u notebook with 1-year Depot warranty

3 YEAR Depot Warranty with Battery Replacement	04W8702
3 YEAR Depot Warranty with Battery Replacement & Accidental Damage Protection	04W8704
3 YEAR Onsite Warranty with Battery Replacement	04W8703
3 YEAR Onsite Warranty with Battery Replacement & Accidental Damage Protection	04W8705

ThinkPad Edge E431/E531 notebooks with 1-year Depot warranty

2 YEAR Depot Warranty	5WS0A23679
3 YEAR Depot Warranty	5WS0A23741
3 YEAR Depot Warranty & Accidental Damage Protection	5PS0A23716
2 YEAR Onsite Warranty	5WS0A23708
3 YEAR Onsite Warranty	5WS0A23776

ThinkPad S3 S431 notebooks with 1-year Depot warranty

3 YEAR Depot Warranty with Battery Replacement & Accidental Damage Protection	5PS0A14104
3 YEAR Onsite Warranty with Battery Replacement & Accidental Damage Protection	5WS0A14076

TopSeller Priority Support

- 24x7 support with priority routing and advanced level technicians

ThinkPad Edge E430/E430c/E530/E530c notebooks with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9094

ThinkPad Twist S230u notebook with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	45J9094

ThinkPad Edge E431/E531 notebooks with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	5WS0A23257

ThinkPad S3 S431 notebooks with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	5WS0A14092

* Covered machine must have concurrent warranty coverage.

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ThinkPad® Edge/Twist/S - Lenovo Services

Partial list of Lenovo® Services[22] for ThinkPad Edge notebooks

For more information see: **http://www.lenovo.com/services_warranty/us/en/index.html**

Lenovo service upgrade options for ThinkPad Edge/Twist/S series

ThinkPad Edge E430/E430c/E530/E530c notebooks with 1-year Depot warranty

2 YEAR Depot Warranty	0C07006
3 YEAR Depot Warranty	0C07010
1 YEAR Onsite Warranty	45K5968
2 YEAR Onsite Warranty	0C07007
3 YEAR Onsite Warranty	0C07011

ThinkPad Twist S230u notebook with 1-year Depot warranty

2 YEAR Depot Warranty	0C07006
3 YEAR Depot Warranty	0C07010
1 YEAR Onsite Warranty	45K5968
2 YEAR Onsite Warranty	0C07007
3 YEAR Onsite Warranty	0C07011

ThinkPad Edge E431/E531/E545 notebooks with 1-year Depot warranty

2 YEAR Depot Warranty	5WS0A23781
3 YEAR Depot Warranty	5WS0A23813
2 YEAR Onsite Warranty	5WS0A23747
3 YEAR Onsite Warranty	5WS0A23681

ThinkPad S1 Yoga notebooks with 1-year Depot warranty

2 YEAR Depot Warranty	5WS0E97281
3 YEAR Depot Warranty	5WS0E97328
2 YEAR Onsite Warranty	5WS0E97258
3 YEAR Onsite Warranty	5WS0E97384

ThinkPad S3 S431 notebooks with 1-year Depot warranty

2 YEAR Depot Warranty	5WS0A14073
3 YEAR Depot Warranty	5WS0A14081
2 YEAR Onsite Warranty	5WS0A14078
3 YEAR Onsite Warranty	5WS0A14086

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Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to: http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[10] **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[13] **Internet access not included.**

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[16] **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.

[17] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[18] **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with Depot or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

[19] **Depot repair service:** The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[22] **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.

[23] **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

[24] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[27] **Based on IEEE 802.11a and 802.11b.** A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

[28] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[30] **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

[32] **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

[35] **Operating system:** Level of support varies by operating system. Operating systems not preloaded on the system may not provise full feature functionality. Refer to **lenovo.com**/think/support and enter your machine type and model number for more information.

[37] **Battery:** The ThinkPad Edge and ThinkPad SL series do not support batteries that are not genuine Lenovo-made or authorized. These systems will continue to boot, but may not charge unauthorized batteries. **Warning:** Lenovo has no responsibility for the performance or safety of unauthorized batteries, and provides no warranties for failures or damage arising out of their use.

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ThinkPad®

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Visit **www.lenovo.com/safecomputing** periodically for the latest information on safe and effective computing.

Visit **www.lenovo.com/psref** for the latest version of Product Specifications Reference.

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